Physica C 181 (1991) 399–402
North-Holland

PHYSICA C

Author Index to Volume 181

Achiba, Y., see Y. Fukuda **181**, 320
Akamatsu, S., see A. Tsukamoto **181**, 369
Almasan, C.C., see J.C. Garland **181**, 381
Amoretti, G., see L. Cristofolini **181**, 121
Aoki, R., see T. Nakamura **181**, 233
Aomine, T., see T. Nishizaki **181**, 223
Arai, M., K. Yamada, Y. Hidaka, A.D. Taylor and Y. Endoh, Phonon density of states of super and non-superconducting states in $La_{1.85}Sr_{0.15}Cu_{1-x}Zn_xO_4$ ($x=0, 0.02$) **181**, 45
Arai, T., see H. Yamamoto **181**, 133

Baetzold, R.C., Computations of point defect energies in $YBa_2Cu_3O_{6.5}$ **181**, 252
Bando, Y., see T. Nishizaki **181**, 223
Bernhard, K., see G. Gritzner **181**, 201
Blatter, G., see F. Stucki **181**, 385
Block, R., see L. Jansen **181**, 149
Boekholt, M. and G. Güntherodt, Resonant Raman scattering of superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$ single crystals **181**, 179
Boyn, R., K. Löbe, H.-U. Habermeier and N. Pruß, Photoconductivity of nonmetallic $YBa_2Cu_3O_x$ thin films **181**, 75
Brett, M.J., see K.L. Westra **181**, 30
Bucci, C., see L. Cristofolini **181**, 121
Buisson, O. and M.M. Doria, The supercurrent streamlines of the single vortex in uniaxial superconductors **181**, 273
Burns, G., F.H. Dacol, C. Feild and F. Holtzberg, Raman modes of $YBa_2Cu_3O_x$ with variable oxygen content **181**, 37

Calestani, G., see L. Cristofolini **181**, 121
Calvani, P., M. Capizzi, F. Donato, P. Dore, S. Lupi, P. Maselli and C.P. Varsamis, Infrared optical properties of perovskite substrates for high-T_c superconducting films **181**, 289
Capizzi, M., see P. Calvani **181**, 289
Carretta, P., see L. Cristofolini **181**, 121
Caves, L.W.J., see Z.P. Han **181**, 355
Chaichit, N., see C. Engkagul **181**, 63
Chaillout, C., J. Dürr, J. Chenavas, M. Marezio, L.F. Schneemeyer and T. Siegrist, The crystal structure of $Ba(Bi_{0.977}K_{0.023})O_3$ by single-crystal X-ray diffraction **181**, 325
Chaud, X., see D.F. Lee **181**, 81
Chen, X.-F., G.X. Tessema and M.J. Skove, Effect of elastic stress on the resistivity and T_c of $(Bi,Pb)_2Sr_2Ca_{n-1}Cu_nO_x$ **181**, 340
Chenavas, J., see C. Chaillout **181**, 325
Chi, C.C., see R.P. Huebener **181**, 345
Chiengpratoom, N., see C. Engkagul **181**, 63
Cohen, M.L., see N. Kijima **181**, 18
Corkill, J.L., see N. Kijima **181**, 18
Cristofolini, L., G. Amoretti, C. Bucci, P. Carretta, R. De Renzi, G. Guidi, F. Licci and G. Calestani, Electric field gradient at Cu nucleus in CuO: single crystal NMR determination and point charge model **181**, 121

Dacol, F.H., see G. Burns **181**, 37
De Renzi, R., see L. Cristofolini **181**, 121
Donato, F., see P. Calvani **181**, 289
Dore, P., see P. Calvani **181**, 289
Doria, M.M., see O. Buisson **181**, 273
Dupree, R., see Z.P. Han **181**, 355
Dürr, J., see C. Chaillout **181**, 325

Eaiprasertsak, K., see C. Engkagul **181**, 63
Edwards, P.P., see R.S. Liu **181**, 303
Endoh, Y., see M. Arai **181**, 45
Engkagul, C., K. Eaiprasertsak, J. Laksanaboonsong, K. Treechairusme, N. Chaichit, S. Leelaprute, N. Chiengpratoom and I.M. Tang, Lithium/strontium exchange in "2212" bismuth superconductors **181**, 63
Er, G., Y. Miyamoto, F. Kanamaru and S. Kikkawa, Superconductivity in the infinite-layer compound $Sr_{1-x}La_xCuO_2$ prepared under high pressure **181**, 206

Feild, C., see G. Burns **181**, 37
Fruchter, L., see B. Janossy **181**, 51
Fueki, K., see Y. Idemoto **181**, 171
Fujii, I., see T. Nishizaki **181**, 223
Fukuda, Y., N. Sanada, M. Nagoshi, T. Takahashi, H. Katayama-Yoshida, K. Kikuchi, S. Suzuki, I. Ikemoto, Y. Achiba, Y. Syono and M. Tachiki, Electronic states of core levels and valence bands for K_xC_{60} studied by X-ray photoelectron spectroscopy **181**, 320

Gao, W. and J.B. Vander Sande, Increasing the critical current density of BSCCO/Ag superconducting microcomposites by mechanical deformation **181**, 105
Garland, J.C., C.C. Almasan and M.B. Maple, The effect of strong flux line correlations on the irreversibility line of high temperature superconductors **181**, 381
Ghosh, B., see A.J. Pal **181**, 186
Gold, A. and A. Mlayah, Dynamical conductivity of a disordered Bose condensate. A simple model for high-T_c superconductors **181**, 374
Goldfarb, R.B., see R.J. Loughran **181**, 138
Graves, P.R., S. Myhra, K. Hawkins and T.J. White, Raman-active modes in the $(Ca_xSr_{1-x})_{n+1}Ti_nO_{3n+1}$ layer perovskites **181**, 265

Green, S.M., see W. Jiang **181**, 68
Greene, R.L., see W. Jiang **181**, 68
Gritzner, G. and K. Bernhard, $Pb_{0.3}Bi_{1.7}Ca_xSr_{4-x}Cu_3O_y$ and $Pb_{0.4}Bi_{1.6}Ca_xSr_{4-x}Cu_3O_y$ superconductors from coprecipitated oxalate precursors **181**, 201
Gronsky, R., see N. Kijima **181**, 18
Gros, Y., see C. Meyer **181**, 1
Guidi, G., see L. Cristofolini **181**, 121
Güntherodt, G., see M. Boekholt **181**, 179

Habermeier, H.-U., see R. Boyn **181**, 75
Hackenbroich, G. and S. Scheidl, Rigorous determination of the disintegration temperature of single vortex lines **181**, 163
Han, Z.P., R. Dupree, D.Mck. Paul, A.P. Howes and L.W.J. Caves, A ^{89}Y NMR study of Pr- and Nd-doped $YBa_2Cu_3O_7$ **181**, 355
Hartmann-Boutron, F., see C. Meyer **181**, 1
Hashimoto, T., see M. Yoshimoto **181**, 284
Hawkins, K., see P.R. Graves **181**, 265
Hidaka, Y., see M. Arai **181**, 45
Hiratani, M., see A. Tsukamoto **181**, 369
Holtzberg, F., see G. Burns **181**, 37
Howes, A.P., see Z.P. Han **181**, 355
Huebener, R.P., F. Kober, H.-C. Ri, K. Knorr, C.C. Tsuei, C.C. Chi and M.R. Scheuermann, Seebeck and Nernst effect in the mixed state of slightly oxygen deficient YBaCuO **181**, 345

Ichikawa, S., see Y. Idemoto **181**, 171
Idemoto, Y., S. Ichikawa and K. Fueki, Oxygen nonstoichiometry of 2223 phase Bi–Pb–Sr–Ca–Cu–O system superconducting oxide **181**, 171
Ikemoto, I., see Y. Fukuda **181**, 320
Ishida, T., Complex susceptibility and critical temperature of phenol-treated $Bi_{1.8}Pb_{0.2}Sr_2CaCu_2O_8$ **181**, 392
Itoh, M., see T. Nakamura **181**, 233
Iwai, Y., M. Noguchi, H. Saito and M. Takata, Preparation of $YBa_2Cu_4O_8$ by a seeding method at ambient pressure **181**, 261

Jánossy, A., see S. Pekker **181**, 11
Janossy, B., D. Prost, S. Pekker and L. Fruchter, Magnetic study of oxygen-deficient $YBaCuO_{7-\delta}$ **181**, 51
Jansen, L. and R. Block, On the concept of "bound valence sums" and its applicability in the analysis of high-T_c superconductors **181**, 149
Jiang, W., S.M. Green and R.L. Greene, Preparation and properties of superconducting $Bi_2Ca_{3-x}R_xCu_2O_{8+\delta}$ **181**, 68
Jin, S., G.W. Kammlott, T.H. Tiefel, T.T. Kodas, T.L. Ward and D.M. Kroeger, Microstructure and properties of the Y–Ba–Cu–O superconductor with submicron "211" dispersions **181**, 57
Johnson, J.D., see R.S. Liu **181**, 303

Kamat, R.V., T.V. Vittal Rao, K.T. Pillai, V.N. Vaidya and D.D. Sood, Preparation of high grade YBCO powders and pellets through the glycerol route **181**, 245
Kammlott, G.W., see S. Jin **181**, 57
Kanamaru, F., see G. Er **181**, 206
Kao, Y.H., see L.W. Song **181**, 239
Katayama-Yoshida, H., see Y. Fukuda **181**, 320
Kawaji, H., see T. Nakamura **181**, 233
Kijima, N., R. Gronsky, X.-D. Xiang, W.A. Vareka, A. Zettl, J.L. Corkill and M.L. Cohen, Crystal structure of stage-1 iodine-intercalated superconducting $IBi_2Sr_2CaCu_2O_x$ **181**, 18
Kikkawa, S., see G. Er **181**, 206
Kikuchi, K., see Y. Fukuda **181**, 320
King, P.J., J.E. Pohl, A. Kirk, J.S. Lees and W.B. Roys, The "hinge" behaviour of the current–voltage characteristics of polycrystalline high temperature superconductors **181**, 88
Kirk, A., see P.J. King **181**, 88
Knorr, K., see R.P. Huebener **181**, 345
Kober, F., see R.P. Huebener **181**, 345
Kodama, Y., see N. Murayama **181**, 331
Kodas, T.T., see S. Jin **181**, 57
Koinuma, H., see M. Yoshimoto **181**, 284
Kozlowski, G., see I. Maartense **181**, 25
Kroeger, D.M., see S. Jin **181**, 57

Laksanaboonsong, J., see C. Engkagul **181**, 63
Lazuta, A.V., Relaxation of uniform magnetization precession in La_2CuO_4 above T_N **181**, 127
Lee, D.F., X. Chaud and K. Salama, Transport current density in bulk oriented-grained $YBa_2Cu_3O_x$/silver composites **181**, 81
Leelaprute, S., see C. Engkagul **181**, 63
Lees, J.S., see P.J. King **181**, 88
Li, C., L. Liu and Q. Yao, (Bi,Pb)–Sr–Ca–Cu–O superconducting films prepared by chemical spray deposition **181**, 160
Li, H.C., see C.A. Wang **181**, 296
Li, J.W., see C.A. Wang **181**, 296
Li, L., see C.A. Wang **181**, 296
Liang, R., see T. Nakamura **181**, 233
Licci, F., see L. Cristofolini **181**, 121
Liu, L., see C. Li **181**, 160
Liu, R.S., J.D. Johnson and P.P. Edwards, Electrical and magnetic properties of the Tl–Sr–V–O system **181**, 303
Löbe, K., see R. Boyn **181**, 75
Loughran, R.J. and R.B. Goldfarb, Anisotropic weak-link properties and intergranular lower critical field of grain-aligned $YBa_2Cu_3O_x$ **181**, 138
Lupi, S., see P. Calvani **181**, 289

Maartense, I., A.K. Sarkar and G. Kozlowski, Effects of quenching on the superconductive properties of the $YBa_2Cu_4O_8$ (124) system **181**, 25
Mandal, P., see A.J. Pal **181**, 186
Maple, M.B., see J.C. Garland **181**, 381
Marezio, M., see C. Chaillout **181**, 325
Maselli, P., see P. Calvani **181**, 289

Meyer, C., F. Hartmann-Boutron, Y. Gros and P. Strobel, Room temperature Mössbauer spectra of ^{57}Fe-doped $La_2SrCu_2O_6$, $La_2CaCu_2O_6$ and $La_{1.6}Sr_{0.4}CaCu_2O_6$. Structural implications **181**, 1
Miura, T., see S. Takeno **181**, 143
Miyamoto, Y., see G. Er **181**, 206
Mlayah, A., see A. Gold **181**, 374
Mori, T., see H. Yamamoto **181**, 133
Müller, P., see R. Sieburger **181**, 335
Murayama, N., Y. Kodama, S. Sakaguchi and F. Wakai, Two step dependence of critical temperature on oxygen content for the Bi–Pb–Sr–Ca–Cu–O superconductor **181**, 331
Myhra, S., see P.R. Graves **181**, 265

Nagoshi, M., see A. Tokiwa **181**, 311
Nagoshi, M., see Y. Fukuda **181**, 320
Nakamura, S., see S. Takeno **181**, 143
Nakamura, T., R. Liang, H. Kawaji, M. Itoh, R. Aoki and K. Sakai, A simple relation between the pair-interaction parameter and optical absorption edge in oxide superconductors **181**, 233
Narumi, E., see L.W. Song **181**, 239
Nishizaki, T., T. Aomine, I. Fujii, K. Yamamoto, S. Yoshii, T. Terashima and Y. Bando, Transport critical currents and flux pinning mechanisms in single-crystalline thin films of $YBa_2Cu_3O_{7-\delta}$ **181**, 223
Noguchi, M., see Y. Iwai **181**, 261

Oku, T., see A. Tokiwa **181**, 311
Onari, S., see H. Yamamoto **181**, 133
Otto, A. and J.B. Vander Sande, The length dependence of locally variable critical current **181**, 191

Pal, A.J., P. Mandal, A. Poddar and B. Ghosh, Infrared studies of $Bi_2Sr_2Ca_{1-x}Y_xCu_2O_{8+\delta}$ and correlation between Cu–O distance derived from X-ray and IR **181**, 186
Paul, D.Mck., see Z.P. Han **181**, 355
Pekker, S., A. Jánossy and A. Rockenbauer, Ordering of oxygen into chains and distribution of hole density in $YBa_2Cu_3O_{6+x}$ **181**, 11
Pekker, S., see B. Janossy **181**, 51
Peña, O., see C. Rossel **181**, 363
Pillai, K.T., see R.V. Kamat **181**, 245
Poddar, A., see A.J. Pal **181**, 186
Pohl, J.E., see P.J. King **181**, 88
Prost, D., see B. Janossy **181**, 51
Pruß, N., see R. Boyn **181**, 75

Rammer, J., On the vortex structure in pure niobium **181**, 99
Rhyner, J., see F. Stucki **181**, 385
Ri, H.-C., see R.P. Huebener **181**, 345
Rockenbauer, A., see S. Pekker **181**, 11
Ron, X.S., see C.A. Wang **181**, 296
Rossel, C., O. Peña, H. Schmitt and M. Sergent, On the irreversibility line in the Chevrel phase superconductors **181**, 363
Routledge, D., see K.L. Westra **181**, 30
Roys, W.B., see P.J. King **181**, 88

Sagoi, M., see S. Takeno **181**, 143
Saito, H., see Y. Iwai **181**, 261
Sakaguchi, S., see N. Murayama **181**, 331
Sakai, K., see T. Nakamura **181**, 233
Salama, K., see D.F. Lee **181**, 81
Sanada, N., see Y. Fukuda **181**, 320
Sarkar, A.K., see I. Maartense **181**, 25
Scheidl, S., see G. Hackenbroich **181**, 163
Scheuermann, M.R., see R.P. Huebener **181**, 345
Schilling, J.S., see R. Sieburger **181**, 335
Schmitt, H., see C. Rossel **181**, 363
Schneemeyer, L.F., see C. Chaillout **181**, 325
Sergent, M., see C. Rossel **181**, 363
Shaw, D.T., see L.W. Song **181**, 239
Sieburger, R., P. Müller and J.S. Schilling, Pressure dependence of the superconducting transition temperature in $Bi_2Sr_2CaCu_2O_{8+y}$ as a function of oxygen content **181**, 335
Siegrist, T., see C. Chaillout **181**, 325
Skove, M.J., see X.-F. Chen **181**, 340
Soga, N., see M. Yoshimoto **181**, 284
Song, L.W., E. Narumi, M. Yang, F. Yang, D.T. Shaw and Y.H. Kao, Scaling behavior of flux-pinning force in doped Y–Ba–Cu–O thin films **181**, 239
Sood, D.D., see R.V. Kamat **181**, 245
Strobel, P., see C. Meyer **181**, 1
Stucki, F., J. Rhyner and G. Blatter, Analysis of the low field critical state in ceramic high-T_c superconductors **181**, 385
Suzuki, S., see Y. Fukuda **181**, 320
Syono, Y., see A. Tokiwa **181**, 311
Syono, Y., see Y. Fukuda **181**, 320

Tachiki, M., see Y. Fukuda **181**, 320
Takahashi, T., see Y. Fukuda **181**, 320
Takata, M., see Y. Iwai **181**, 261
Takeno, S., S. Nakamura, M. Sagoi and T. Miura, A structural study on the crystal regularity of $YBa_2Cu_3O_{7-x}$ thin films composed of several types of oriented domains **181**, 143
Tanabe, S., see M. Yoshimoto **181**, 284
Tanaka, J., see M. Yoshimoto **181**, 284
Tang, I.M., see C. Engkagul **181**, 63
Taylor, A.D., see M. Arai **181**, 45
Terashima, T., see T. Nishizaki **181**, 223
Tessema, G.X., see X.-F. Chen **181**, 340
Tiefel, T.H., see S. Jin **181**, 57
Tokiwa, A., T. Oku, M. Nagoshi and Y. Syono, Synthesis and crystal structure of $Pb_2Sr_2(Ln, Ce)_nCu_3O_{6+2n+\delta}$ and $Pb(Ba, Sr)_2(Ln, Ce)_nCu_3O_{5+2n+\delta}$ ($Ln=Y$, $n=3, 4, \ldots$ and $0 \leqq \delta \leqq 2.0$), layered structure compounds with multiple fluorite layers **181**, 311
Treechairusme, K., see C. Engkagul **181**, 63
Tsuei, C.C., see R.P. Huebener **181**, 345
Tsukamoto, A., M. Hiratani and S. Akamatsu, Role of microwave oxygen plasma in the low-temperature growth of $HoBa_2Cu_3O_x$ thin films **181**, 369

Vaidya, V.N., see R.V. Kamat **181**, 245
Vander Sande, J.B., see W. Gao **181**, 105
Vander Sande, J.B., see A. Otto **181**, 191
Vaneldik, J.F., see K.L. Westra **181**, 30
Vareka, W.A., see N. Kijima **181**, 18
Varsamis, C.P., see P. Calvani **181**, 289
Veidt, B.G., see K.L. Westra **181**, 30
Vittal Rao, T.V., see R.V. Kamat **181**, 245

Wakai, F., see N. Murayama **181**, 331
Wang, C.A., R.L. Wang, H.C. Li, J.W. Li, H.R. Yi, X.S. Ron, B. Yin, P. Xu and L. Li, The microstructure and superconductivity of $GdBa_2Cu_3O_{7-x}$ thin films **181**, 296
Wang, R.L., see C.A. Wang **181**, 296
Ward, T.L., see S. Jin **181**, 57
Westra, K.L., B.G. Veidt, J.F. Vaneldik, D. Routledge and M.J. Brett, Fabrication of NbN/MgO/NbN tunnel junctions **181**, 30
White, T.J., see P.R. Graves **181**, 265

Xiang, X.-D., see N. Kijima **181**, 18
Xu, P., see C.A. Wang **181**, 296

Yamada, K., see M. Arai **181**, 45
Yamamoto, H., T. Mori, S. Onari and T. Arai, Infrared spectra and Raman scattering of $Y(Ba_{1-x}Sr_x)_2Cu_3O_{6.2}$ **181**, 133
Yamamoto, K., see T. Nishizaki **181**, 223
Yang, F., see L.W. Song **181**, 239
Yang, M., see L.W. Song **181**, 239
Yao, Q., see C. Li **181**, 160
Yi, H.R., see C.A. Wang **181**, 296
Yin, B., see C.A. Wang **181**, 296
Yoshii, S., see T. Nishizaki **181**, 223
Yoshimoto, M., H. Koinuma, T. Hashimoto, J. Tanaka, S. Tanabe and N. Soga, ^{151}Eu Mössbauer spectroscopy and structure of the electron-doped $(Eu,La)_{2-x}Ce_xCuO_{4-y}$ superconductor **181**, 284

Zettl, A., see N. Kijima **181**, 18

Physica C 181 (1991) 403–404
North-Holland

PHYSICA C

Analytic Subject Index to Volume 181

AC susceptibility 138, 335, 385, 392
AC susceptibility of superconductors 25
Anisotropic superconductor 51, 138, 223, 273, 340, 345
Antiferromagnetic order 303
Applications of high-T_c superconductors 105, 191

BCS theory 99
Bond valence 149
Bose condensation 374

Carrier concentration 68
Charge transfer gap 179
Chevrel phase 363
Critical current density 57, 81, 105, 191, 223, 245, 385
Critical phenomena 127
Cu–O chains 11, 37
Cu–O planes 1, 45, 186, 233, 340, 374
Current-voltage characteristics
–of BiSCCO 88
Cu-valence 149, 171

Debye temperature 233
Defect structures 143, 252

EELS 374
Electrical resistivity 63, 88, 191, 201, 303, 345
Electron-doped superconductor 206, 284
Electronic structure 75, 252
–of K_xC_{60} 320
Electron–phonon coupling 45, 233
ESR 127
–in $Y_{0.999}Gd_{0.001}Ba_2Cu_3O_{6+x}$ 11

Far-infrared spectra 374
Fluctuation effects 163
Flux lattice 163, 363, 381
Flux pinning 223, 239, 381

Grain alignment (texturing) 81, 138
Grain boundaries 25, 81, 88, 296
Granular superconductivity 88, 385, 392

Hall effect 68
High pressure effect 149
–on $(Bi,Pb)_2Sr_2Ca_{n-1}Cu_nO_x$ 340
–on $Bi_2Sr_2CaCu_2O_{8+y}$ 335
High pressure synthesis
–of $Sr_{1-x}La_xCuO_2$ 206
Hole concentration 335
HREM 143, 311

Infrared spectroscopy 133, 186, 289
Intercalation 18
Irreversibility line 363, 381
Isotope effect 233

Josephson effect 30

Lattice dynamics 133
Lattice parameters
–of $Sr_{1-x}La_xCuO_2$ 206
Lawrence–Doniach model 163
Lower critical field 138

Magnetization 138, 239, 303, 363, 385
Metal–insulator transition 37, 186
Mixed state 99, 345
Mössbauer spectroscopy 1, 284
Multilayers 30
Muon spin rotation 99

Neutron scattering
–in $La_{1.85}Sr_{0.15}Cu_{1-x}Zn_xO_4$ (x=0, 0.02) 45
NMR
–in CuO 121
–in $Y_{1-x}R_xBa_2Cu_3O_7$ (R = Pr, Nd) 355
NQR
–in CuO 121

Optical absorption 233
Optical reflectivity 289
Optical transitions 75
O–T transition 265
Oxygen ordering 11
Oxygen plasma 369
Oxygen stoichiometry 1, 11, 25, 51, 127, 171
–in $Bi_2Sr_2CaCu_2O_{8+y}$ 335
–in Bi–Pb–Sr–Ca–Cu–O 331

Penetration depth 51
Phase diagram 369
–of Bi–Pb–Sr–Ca–Cu–O 171
Phonon spectrum 37, 45, 179, 186, 289
Photoconductivity 75
Point defect 252

Raman scattering 160, 265, 374
–in $Bi_2Sr_2CaCu_2O_{8+\beta}$ 179
–in $YBa_2Cu_3O_x$ 37
–of $Y(Ba_{1-x}Sr_x)_2Cu_3O_{6.2}$ 133

Scanning electron microscopy 296
Seeding method 261
Solution method 245
Spin fluctiona 127
Spin–lattice relaxation time T_1 355
Structure
–of $Ba(Bi_{0.977}K_{0.023})O_3$ 325
–of (Bi,Pb)SrCaCuO 160, 201
–of $Ca_xSr_{1-x})_{n+1}Ti_nO_{3n+1}$ 265
–of $(Eu,La)_{2-x}Ce_xCuO_{4-y}$ 284
–of $IBi_2Sr_2CaCu_2O_x$ 18
–of $Pb_2Sr_2(Ln,Ce)_nCu_3O_{6+2n+\delta}$ 311
Substitution effects 1
–in BiSrCaCuO 63
–in $Y_{1-x}R_xBa_2Cu_3O_7$ (R = Pr, Nd) 355
–in Y–Ba–Cu–O 239
Substitution effects of K
–in $Ba(Bi_{0.977}K_{0.023})O_3$ 325
Substrates 289
Surface impedance 296
Synthesis
–of (Bi,Pb)–Sr–Ca–Cu–O 160
–of (Bi,Pb)SrCaCuO 201
–of $Bi_{1.8}Pb_{0.2}Sr_2CaCu_2O_8$ 392
–of $Bi_2Ca_{3-x}R_xCu_2O_{8+\delta}$ 68
–of Bi–Pb–Sr–Ca–Cu–O 171, 331
–of BiSrCaCuO 63
–of BSCCO/Ag (ribbons) 105
–of $HoBa_2Cu_3O_x$ (thin films) 369
–of K_xC_{60} 320
–of $Pb_2Sr_2(Ln,Ce)_nCu_3O_{6+2n+\delta}$ 311
–of Tl–Sr–V–O 303
–of $YBa_2Cu_3O_7$ 245
–of $YBa_2Cu_3O_{7-\delta}$ 57
–of $YBa_2Cu_4O_8$ 25, 261

Thermoelectric effects 345
Thin films 30, 75, 143, 160, 239, 296, 369

–of $YBa_2Cu_3O_{7-\delta}$ 57
Torque 51
Transmission electron microscopy 18
Tunneling 30
Upper critical field 223
Vortex interaction 163, 273
Vortex structure 99
Weak links 81, 138, 392
XPS
–of K_xC_{60} 320

Physica C 181 (1991) 405
North-Holland

PHYSICA C

Materials Index to Volume 181

$Ba(Bi_{0.977}K_{0.023})O_3$
–structure 325
–substitution effects of K 325
$(Bi,Pb)_2Sr_2Ca_{n-1}Cu_nO_x$
–high pressure effect 340
(Bi,Pb)–Sr–Ca–Cu–O
(Bi,Pb)SrCaCuO
–structure 160, 201
–synthesis 160, 201
$Bi_{1.8}Pb_{0.2}Sr_2CaCu_2O_8$
–synthesis 392
$Bi_2Ca_{3-x}R_xCu_2O_{8+\delta}$
–synthesis 68
$Bi_2Sr_2CaCu_2O_{8+\beta}$
–Raman scattering 179
$Bi_2Sr_2CaCu_2O_{8+y}$
–high pressure effect 335
–oxygen stoichiometry 335
Bi–Pb–Sr–Ca–Cu–O
–oxygen stoichiometry 331
–phase diagram 171
–synthesis 171, 331
BiSrCaCuO
–substitution effects 63
–synthesis 63

$Ca_xSr_{1-x})_{n+1}Ti_nO_{3n+1}$
–structure 265

$(Eu,La)_{2-x}Ce_xCuO_{4-y}$
–structure 284

$HoBa_2Cu_3O_x$
–synthesis 369

$IBi_2Sr_2CaCu_2O_x$
–structure 18

K_xC_{60}
–electronic structure 320
–synthesis 320
–XPS 320

$La_{1.85}Sr_{0.15}Cu_{1-x}Zn_xO_4$
–neutron scattering 45

$Pb_2Sr_2(Ln,Ce)_nCu_3O_{6+2n+\delta}$
–structure 311
–synthesis 311

$Sr_{1-x}La_xCuO_2$
–high pressure synthesis 206
–lattice parameters 206

Tl–Sr–V–O
–synthesis 303

$Y_{0.999}Gd_{0.001}Ba_2Cu_3O_{6+x}$
–ESR 11
$Y_{1-x}R_xBa_2Cu_3O_7$
–NMR 355
–substitution effects 355
$Y(Ba_{1-x}Sr_x)_2Cu_3O_{6.2}$
–Raman scattering 133
$YBa_2Cu_3O_7$
–synthesis 245
$YBa_2Cu_3O_{7-\delta}$
–synthesis 57
–thin films 57
$YBa_2Cu_3O_x$
–Raman scattering 37
$YBa_2Cu_4O_8$
–synthesis 25, 261
Y–Ba–Cu–O
–substitution effects 239